

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
May 1998

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Governor
State of California

Douglas P. Wheeler
Secretary for Resources
The Resources Agency

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State of California
The Resources Agency

Department of Water Resources
Division of Operations and Maintenance

**State Water Project
Operations Data**
for the month of March 1998

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of May 1998.

Heavy storms during the last week of May caused a significant rise in the upper Sacramento River, with nearly 80,000 cfs at Ord Ferry gage (near Chico). Moderate overflow took place on all fixed weirs of the Sacramento River flood system, with considerable flow in the Sutter Bypass and significant flow in the Yolo Bypass. Northern Sierra precipitation was about 165 percent of the seasonal average in May. Precipitation was about 7.5 inches, compared to an average of 2 inches. Since October 1, statewide precipitation was 170 percent of average, compared to 190 percent at the end of water year 1983 and 165 percent at the end of water year 1995.

Runoff during May was about 150 percent of average. Seasonal statewide runoff was approximately 160 percent of average for this date, the same as last year on May 31. Some of the excess runoff in Tulare Lake region rivers went to the Tulare Lake bed. About 40,000 acres of lake-bottom farmland were inundated including the Boswell Ranch headquarters.

As of May 31, about 0.6 MAF of space remained unfilled in the four major reservoirs on the Sacramento River system. More space remained available in the San Joaquin River and Tulare Lake region rivers (about 2.6 MAF). Reservoir storage increased slightly more than normal during May and was about 115 percent of average. Statewide storage was about 110 percent at this time in 1997. Total storage in major SWP reservoirs was 5.07 MAF on May 31, compared with 4.59 MAF at this time in 1997. The average storage in the major SWP reservoirs on May 31 was 4.2 MAF. May 31 storage at Lake Oroville was about 3.3 MAF, compared to 3.19 MAF at this time last year. The State's share of San Luis Reservoir storage was about 1.06 MAF, as compared with 721,000 AF at this time last year. The combined storage in southern reservoirs was 704,000 AF on May 31, compared with 679,000 AF at this time last year.

SWP water deliveries for 1998 through May 31 were 427,000 AF, representing a combination of annual entitlement, carryover, interruptible, and exchange waters. This is 272,000 AF less than delivered during the same period in 1997 because 1997 was so dry and 1998 was so wet.

On May 8, flood water inflow to the California Aqueduct through the Kern River Intertie was decreased from 1,400 cfs to approximately 700 cfs, which matched Southern California water demands since Silverwood Lake and Lake Perris were full. Inflow to the Aqueduct was limited to approximately 700 cfs until water demands increased.

Flood control releases were made from Castaic Lake from May 7 through May 26. Flood control releases were made from Lake Silverwood through the entire month of May.

Oroville releases to the Feather River were temporarily reduced from 7,000 cfs to 4,000 cfs during the second week of May and coordinated with USBR reduced releases to assist the Nautical Heritage Society's "tall ship" to pass safely under the Business 80 Pioneer Bridge and get to Old Sacramento. The ship's promotional visit was part of the California Sesquicentennial.

Oroville releases were temporarily increased to 10,000 cfs on May 29 to make room for runoff from a late season storm.

Repairs to Pool 10 at Mile Post 55 were completed on May 15 and normal aqueduct operations resumed. Approximately 1,000 feet of canal was repaired with waterproof geomembrane and shotcrete.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		Total Outflow 1/
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	5003.55	24,030								
1	5003.63	24,107	77	20	0	0	340			
2	5003.65	24,126	19	20	0	0	352			
3	5003.63	24,107	-19	20	0	0	344			
4	5003.57	24,049	-58	20	0	0	322			
5	5003.49	23,972	-77	20	0	0	314			
6	5003.50	23,982	10	20	0	0	331			
7	5003.68	24,155	173	20	0	0	340			
8	5003.71	24,184	29	20	0	0	366			
9	5003.63	24,155	-29	20	0	0	340			
10	5003.50	23,982	-173	20	0	0	298			
11	5003.37	23,857	-125	20	0	0	267			
12	5003.34	23,828	-29	20	0	0	238			
13	5003.32	23,809	-19	20	0	0	224			
14	5003.27	23,761	-48	20	0	0	210			
15	5003.21	23,704	-57	20	0	0	197			
16	5003.17	23,666	-38	20	0	0	178			
17	5003.12	23,618	-48	20	0	0	172			
18	5003.10	23,599	-19	20	0	0	163			
19	5003.10	23,599	0	20	0	0	160			
20	5003.09	23,589	-10	20	0	0	160			
21	5003.09	23,589	0	20	0	0	156			
22	5003.08	23,580	-9	20	0	0	156			
23	5003.08	23,580	0	20	0	0	160			
24	5003.11	23,608	28	20	0	0	181			
25	5003.26	23,752	144	20	0	0	178			
26	5003.21	23,704	-48	20	0	0	188			
27	5003.12	23,618	-86	20	0	0	181			
28	5003.13	23,627	9	20	0	0	190			
29	5003.09	23,589	-38	20	0	0	160			
30	5003.07	23,570	-19	20	0	0	158			
31	5003.09	23,589	19	20	0	0	158			
Total cfs-days			---	620	0	0	7,182	154	7,956	7,734
Total ac-ft			-441	1,230	0	0	14,245	306	15,781	15,340

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow	
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	5588.89	56,894								
1	5588.92	56,942	48	3	0	0	129			
2	5588.91	56,926	-16	3	0	0	143			
3	5589.00	56,910	-16	3	0	0	152			
4	5589.09	57,216	306	3	0	0	161			
5	5589.09	57,216	0	3	0	0	178			
6	5589.13	57,281	65	3	0	0	176			
7	5589.12	57,264	-17	3	0	0	186			
8	5589.16	57,329	65	3	0	0	181			
9	5589.13	57,281	-48	3	0	0	173			
10	5589.02	57,103	-178	3	0	0	176			
11	5589.08	57,200	97	3	0	0	147			
12	5588.94	56,975	-225	3	0	0	152			
13	5588.93	56,959	-16	3	0	0	138			
14	5588.93	56,959	0	3	0	0	125			
15	5588.84	56,814	-145	3	0	0	127			
16	5588.85	56,830	16	3	0	0	110			
17	5588.78	56,718	-112	3	0	0	104			
18	5588.72	56,622	-96	3	0	0	96			
19	5588.71	56,606	-16	3	0	0	88			
20	5588.69	56,574	-32	3	0	0	81			
21	5588.62	56,462	-112	3	0	0	81			
22	5588.64	56,494	32	3	0	0	73			
23	5588.62	56,462	-32	3	0	0	73			
24	5588.60	56,430	-32	3	0	0	70			
25	5588.59	56,414	-16	3	0	0	71			
26	5588.62	56,462	48	3	0	0	70			
27	5588.61	56,446	-16	3	0	0	70			
28	5588.59	56,414	-32	3	0	0	63			
29	5588.52	56,302	-112	3	0	0	59			
30	5588.49	56,254	-48	3	0	0	58			
31	5588.54	56,334	80	3	0	0	56			
Total cfs-days			---	93	0	0	3,567	267	3,926	3,644
Total ac-ft			-560	184	0	0	7,075	529	7,788	7,228

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in CFS						Computed Inflow
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/	
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	5770.53	67,400								
1	5770.65	67,829	429	72	0	0	0			
2	5770.75	68,188	359	74	0	0	0			
3	5770.84	68,511	323	74	0	0	0			
4	5770.95	68,908	397	74	0	0	0			
5	5771.03	69,198	290	74	0	0	0			
6	5771.14	69,596	398	74	0	0	0			
7	5771.19	69,778	182	88	0	0	0			
8	5771.27	70,070	292	100	0	0	0			
9	5771.34	70,325	255	100	0	0	0			
10	5771.35	70,362	37	100	0	0	0			
11	5771.37	70,435	73	100	0	0	0			
12	5771.38	70,471	36	100	0	0	0			
13	5771.39	70,508	37	100	0	0	0			
14	5771.39	70,508	0	100	0	0	0			
15	5771.40	70,544	36	100	0	0	0			
16	5771.41	70,581	37	100	0	0	0			
17	5771.43	70,654	73	100	0	0	0			
18	5771.43	70,654	0	100	0	0	0			
19	5771.42	70,618	-36	100	0	0	0			
20	5771.40	70,544	-74	100	0	0	0			
21	5771.38	70,471	-73	56	0	0	0			
22	5771.42	70,618	147	28	0	0	0			
23	5771.43	70,654	36	28	0	0	0			
24	5771.45	70,727	73	28	0	0	0			
25	5771.55	71,094	367	28	0	0	0			
26	5771.58	71,205	111	28	0	0	0			
27	5771.65	71,462	257	28	0	0	0			
28	5771.72	71,721	259	28	0	0	0			
29	5771.73	71,757	36	28	0	0	0			
30	5771.79	71,979	222	28	0	0	0			
31	5771.81	72,127	148	28	0	0	0			
Total cfs-days			---	2,166	0	0	0	603	2,769	5,153
Total ac-ft			4,727	4,296	0	0	0	1,197	5,493	10,220

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow						Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Spillway Leakage 2/	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Apr 30	865.78	3,025,674									
1	867.20	3,045,795	20,121	13,488	10	69	188	0	13,755	0	33,876
2	869.48	3,078,298	32,503	6,193	10	73	125	0	6,401	0	38,904
3	871.92	3,113,353	35,055	691	10	76	47	0	824	0	35,879
4	873.18	3,131,565	18,212	13,542	10	80	87	0	13,719	0	31,931
5	874.11	3,145,057	13,492	15,814	10	81	64	0	15,969	0	29,461
6	875.09	3,159,317	14,260	15,797	10	82	112	0	16,001	0	30,261
7	875.57	3,166,319	7,002	22,377	10	83	40	0	22,510	0	29,512
8	876.71	3,182,992	16,673	13,741	10	85	96	0	13,932	0	30,605
9	879.14	3,218,738	35,746	2,437	10	88	56	0	2,591	0	38,337
10	881.24	3,249,860	31,122	1,963	10	92	73	0	2,138	0	33,260
11	882.19	3,264,012	14,152	14,711	10	96	147	0	14,964	0	29,116
12	882.30	3,265,264	1,252	26,166	10	96	41	0	26,313	0	27,565
13	882.09	3,262,521	-2,743	27,427	10	96	74	0	27,607	0	24,864
14	882.25	3,264,908	2,387	23,826	10	96	66	0	23,998	0	26,385
15	882.14	3,263,266	-1,642	23,804	10	96	123	0	24,033	0	22,391
16	882.59	3,269,984	6,718	15,518	10	97	180	0	15,805	0	22,523
17	883.11	3,277,760	7,776	14,623	10	97	107	0	14,837	0	22,613
18	882.98	3,275,815	-1,945	21,933	10	98	214	0	22,255	0	20,310
19	882.47	3,268,192	-7,623	27,960	10	98	230	0	28,298	0	20,675
20	881.93	3,260,135	-8,057	28,739	10	97	188	0	29,034	0	20,977
21	881.34	3,251,348	-8,787	29,194	19	96	213	0	29,522	0	20,735
22	880.76	3,242,726	-8,622	28,518	24	95	229	0	28,866	0	20,244
23	880.65	3,241,093	-1,633	21,310	10	95	188	0	21,603	0	19,970
24	880.54	3,239,460	-1,633	18,780	24	95	147	0	19,046	0	17,413
25	881.02	3,246,589	7,129	21,481	24	94	90	0	21,689	0	28,818
26	881.23	3,249,711	3,122	24,193	24	93	180	0	24,490	0	27,612
27	881.24	3,249,860	149	25,223	24	92	114	0	25,453	0	25,602
28	881.73	3,257,154	7,294	26,889	18	94	33	0	27,034	0	34,328
29	882.47	3,268,192	11,038	28,187	11	96	74	0	28,368	0	39,406
30	883.58	3,284,799	16,607	18,254	10	98	25	0	18,387	0	34,994
31	884.72	3,301,917	17,118	15,033	10	100	198	0	15,341	0	32,459
Total			276,243	587,812	398	2,824	3,749	0	594,783	0	871,026

1/ Includes bypass flows

2/ Only occurs when Lake water elevation is greater than or equal to 813.00 and there is no spill

3/ Evaporation will be zero for days when there is precipitation or heavy overcast

4/ Does not include pumpback

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operator

(in acre-feet except as noted)

Capacity: 25,120 ac-ft

May 1998

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)	
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback		
Apr 30	23,601											
1	24,023	422	13,557	502	0	12,583	4	4	1,258	0	212	
2	24,059	36	6,266	504	0	5,577	4	4	1,250	0	101	
3	23,908	-151	767	504	0	90	4	4	1,240	0	-84	
4	24,250	342	13,622	502	0	12,712	4	4	1,238	0	176	
5	23,743	-507	15,895	502	0	15,792	4	4	1,226	0	122	
6	22,904	-839	15,879	504	0	16,180	4	4	1,226	0	192	
7	22,869	-35	22,460	502	0	21,920	4	4	1,220	0	151	
8	21,633	-1,236	13,826	506	0	14,453	4	4	1,224	0	117	
9	23,254	1,621	2,525	512	0	266	4	4	1,226	0	84	
10	24,363	1,109	2,055	482	0	0	4	4	1,236	0	-184	
11	23,409	-954	14,807	506	0	15,179	4	4	1,220	0	140	
12	23,265	-144	26,262	510	0	25,933	4	4	1,220	0	245	
13	22,893	-372	27,523	504	0	27,571	4	4	1,220	0	400	
14	22,802	-91	23,922	530	0	23,596	4	4	1,228	0	289	
15	23,007	205	23,900	482	0	23,237	4	4	1,242	0	310	
16	23,559	552	15,615	506	0	14,608	4	4	1,252	0	299	
17	22,631	-928	14,720	506	0	15,043	4	4	1,246	0	143	
18	23,120	489	22,031	504	0	20,955	4	4	1,238	0	155	
19	23,066	-54	28,058	508	0	27,658	4	4	1,240	0	286	
20	22,939	-127	28,836	506	0	28,605	4	4	1,238	0	382	
21	23,330	391	29,290	508	0	28,466	4	4	1,238	0	305	
22	22,988	-342	28,613	498	0	28,536	4	4	1,232	0	323	
23	22,240	-748	21,405	514	0	21,750	4	4	1,232	0	323	
24	22,350	110	18,875	522	0	18,285	4	4	1,236	0	242	
25	22,489	139	21,575	484	0	20,941	4	4	1,238	0	267	
26	22,882	393	24,286	502	0	23,434	4	4	1,248	0	295	
27	22,459	-423	25,315	516	0	25,297	5	4	1,252	0	304	
28	23,492	1,033	26,983	529	0	25,738	5	4	1,274	0	542	
29	22,865	-627	28,283	480	0	28,750	5	4	1,272	0	641	
30	22,184	-681	18,352	514	0	18,661	5	4	1,254	0	377	
31	22,244	60	15,133	581	0	14,513	5	4	1,232	0	100	
Total		-1,357	590,636	15,730	0	576,329	129	124	38,396	0	7,255	

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Apr 30	133.20	43,605										
1	133.45	44,568	963	12,583	506	0	121	141	10,711	0	-141	11,969
2	131.80	38,394	-6,174	5,577	664	0	180	171	10,711	0	-25	11,961
3	128.28	26,676	-11,718	90	750	0	157	143	10,711	0	-47	11,951
4	128.45	27,196	520	12,712	698	0	115	143	11,028	0	-208	12,266
5	129.04	29,036	1,840	15,792	785	24	107	179	12,714	0	-143	13,940
6	129.71	31,194	2,158	16,180	682	24	121	196	12,754	0	-245	13,980
7	132.26	40,072	8,878	21,920	676	30	210	196	11,544	0	-386	12,764
8	133.62	45,228	5,156	14,453	839	28	266	300	7,478	0	-386	8,702
9	131.44	37,104	-8,124	266	986	19	347	448	6,724	0	134	7,950
10	128.81	28,312	-8,792	0	1,172	18	468	547	6,704	0	117	7,940
11	129.42	30,251	1,939	15,179	1,444	17	514	768	10,076	0	-421	11,296
12	130.64	34,312	4,061	25,933	1,589	10	516	914	18,685	0	-158	19,905
13	132.23	39,962	5,650	27,571	1,529	4	460	906	18,744	0	-278	19,964
14	132.75	41,897	1,935	23,596	1,509	3	343	889	18,744	0	-173	19,972
15	133.12	43,299	1,402	23,237	1,511	3	305	1,020	18,744	0	-252	19,986
16	131.04	35,695	-7,604	14,608	1,621	5	373	1,325	18,724	0	-164	19,976
17	128.71	28,000	-7,695	15,043	1,787	20	424	1,484	18,724	0	-299	19,970
18	128.17	26,342	-1,658	20,955	1,819	32	407	1,642	18,724	0	11	19,962
19	129.45	30,348	4,006	27,658	2,023	52	436	1,863	18,744	0	-534	19,984
20	130.79	34,827	4,479	28,605	2,281	65	454	2,023	18,744	0	-559	19,982
21	131.88	38,684	3,857	28,466	2,499	60	595	2,202	18,744	0	-509	19,982
22	132.85	42,274	3,590	28,536	2,658	54	772	2,321	18,744	0	-397	19,976
23	132.00	39,120	-3,154	21,750	2,777	48	829	2,281	18,724	0	-245	19,956
24	130.13	32,585	-6,535	18,285	2,836	34	904	2,241	18,724	0	-81	19,960
25	128.77	28,187	-4,398	20,941	2,896	11	938	2,281	18,724	0	-489	19,962
26	128.38	26,981	-1,206	23,434	2,896	3	938	2,162	18,466	0	-175	19,714
27	130.07	32,385	5,404	25,297	2,916	4	889	1,982	13,627	0	-475	14,879
28	132.08	39,412	7,027	25,738	2,856	4	801	1,767	13,408	0	125	14,682
29	133.76	45,776	6,364	28,750	2,440	1	676	1,168	17,852	0	-249	19,124
30	132.85	42,274	-3,502	18,661	2,182	0	639	736	18,744	0	138	19,998
31	130.72	34,586	-7,688	14,513	2,103	1	668	688	18,724	0	-17	19,956
Total			-9,019	576,329	53,930	574	14,973	35,127	474,213	0	-6,531	512,609

1/ Includes Bypass flows at Thermalito.

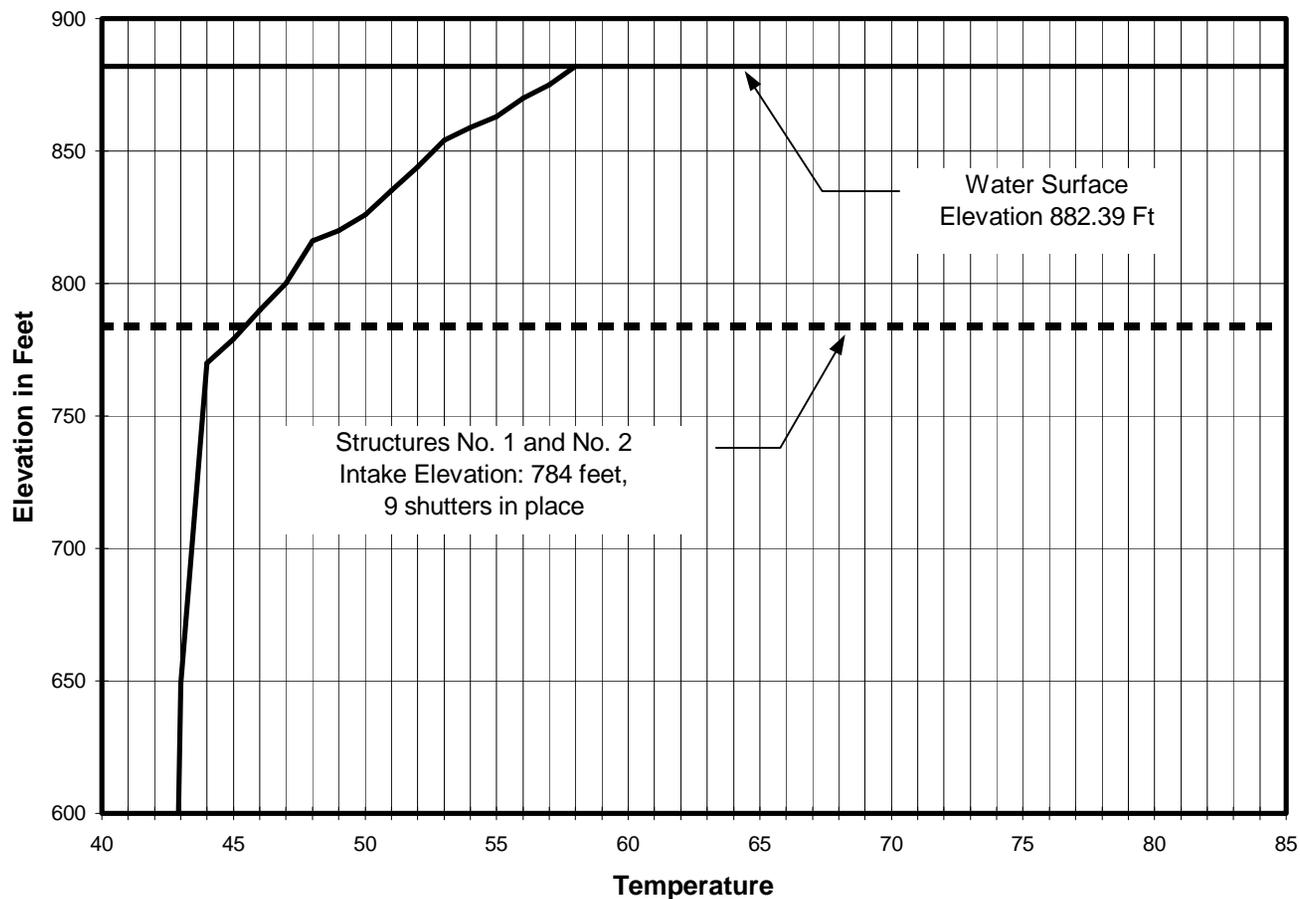
2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

Water Temperature Data
(in degrees Fahrenheit)
May 1998

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	48	48
2	48	48
3	47	48
4	47	48
5	48	48
6	49	48
7	49	49
8	48	48
9	49	48
10	53	48
11	53	49
12	52	48
13	50	48
14	50	48
15	51	48
16	51	48
17	52	49
18	52	49
19	51	48
20	51	49
21	51	49
22	52	49
23	52	49
24	52	49
25	52	49
26	51	49
27	51	49
28	50	49
29	49	49
30	51	49
31	53	50

**Lake Oroville Temperature Profile
on May 20, 1998**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. Aqueduct Operation
Delta Field Division**

(in acre-feet except as noted)

May 1998

<u>North Bay Aqueduct</u>	
Pumped at Barker Slough Pumping Plant	<u>2,316</u>
Travis Turnout	<u>171</u>
Fairfield/Vacaville Turnout	<u>0</u>
Pumped at Cordelia Pumping Plant	<u>2,149</u>
Cordelia Pumping Plant Spillway	<u>0</u>
Computed Losses (-) or Gains (+)	<u>4</u>
Benicia Turnout	<u>1,091</u>
Vallejo Turnout	<u>900</u>
American Canyon 1	<u>130</u>
American Canyon 2	<u>1</u>
Napa City Turnout	<u>27</u>
Total Deliveries (After Cordelia)	<u>2,149</u>
Change in Storage at Napa Terminal Tank	<u>0</u>
<u>California Aqueduct</u>	
Amount Pumped at Banks Pumping Plant	<u>43,225</u>
Amount Pumped at South Bay Pumping Plant	<u>7,243</u>
Deliveries From California Aqueduct (Oak Flat Water District, Tracy Golf, Veterans Cemetery, and Musco Olive)	<u>251</u>
Inflow into California Aqueduct	<u>0</u>
Change in Storage	<u>687</u>
Flow Past Check 12	<u>34,493</u>
Computed Losses (-) or Gains (+)	<u>-551</u>

Table 9. Delta Field Division Plant Data

(in acre-feet)

May 1998

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	81	74	34	34	45	0	0	189
2	75	72	584	584	101	0	0	137
3	69	65	0	0	132	0	0	109
4	73	69	0	0	151	0	0	73
5	78	76	0	0	188	0	0	36
6	75	73	0	0	230	0	0	21
7	66	63	947	947	195	0	0	0
8	74	72	0	0	200	0	0	0
9	79	73	0	0	203	0	0	0
10	89	83	0	0	188	0	0	0
11	81	74	869	869	195	0	0	0
12	56	54	0	0	190	0	0	0
13	70	67	0	0	174	0	0	0
14	78	73	0	0	160	0	0	0
15	69	66	554	554	175	0	0	0
16	72	69	1,082	1,082	172	0	0	0
17	77	78	1,084	1,084	165	0	0	0
18	95	87	1,115	1,115	192	0	0	0
19	93	85	1,276	1,276	237	0	0	0
20	82	75	1,746	1,746	266	0	0	0
21	78	66	2,021	2,021	274	0	0	0
22	73	66	3,355	3,355	376	0	0	0
23	83	75	3,526	3,526	348	0	0	0
24	86	76	4,404	4,404	336	0	0	0
25	86	75	3,955	3,955	335	0	0	0
26	81	73	4,069	4,069	389	0	0	0
27	78	66	4,031	4,031	392	0	0	0
28	58	50	3,679	3,679	345	0	0	0
29	49	44	1,574	1,574	302	0	0	0
30	58	54	1,382	1,382	319	0	0	0
31	54	56	1,938	1,938	268	0	0	0
Total	2,316	2,149	43,225	43,225	7,243	0	0	565

Table 10. Clifton Court Forebay

Daily Operation of Gates

May 1998

Date	Time Opened	Time Closed	Amount of inflow in Acre-Feet	Date	Time Opened	Time Closed	Amount of inflow in Acre-Feet
1	---	---	0	16	00:15	05:00	1,082
2	00:01	07:30	992	17	00:07	05:06	1,084
3	---	---	0	18	01:42	05:11	1,072
4	---	---	0	19	02:34	06:29	1,179
5	---	---	0	20	03:20	08:30	1,587
6	---	---	0	21	04:30 19:35	08:55 20:00	1,767
7	05:32	10:03	904	22	04:47 13:40	10:31 17:35	4,946
8	06:05	09:58	407	23	05:29 14:23	11:21 17:10	4,957
9	---	---	0	24	00:10 06:11 15:40	03:12 12:25 18:19	4,943
10	---	---	0	25	00:01 07:00 16:21	04:01 12:58 18:41	4,946
11	00:01 20:39	04:42 22:35	976	26	00:34 07:42 17:35	04:50 13:40 21:25	4,942
12	00:10	04:15	986	27	00:24 08:21 18:35	05:42 14:32 ---	4,949
13	00:03	05:30	944	28	---	06:34 14:27 21:35	5,336
14	09:01	15:11	902	29	00:28 05:50 12:39	03:10 07:29 14:10	2,173
15	00:20	07:07	984	30	00:05 07:07	03:41 12:35	2,178
				31	00:57 09:10	03:00 13:05	1,702
Total inflow for the month 55,938 AF							

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries				
	Beginning and Ending					Entitle-ment	USBR	Misc.	Loan Water	1997 Carryover Ent.
	No.	Structure	Mile							
1	1	Banks Pumping Plant	3.32		43,225					
		South Bay Pumping Plant	4.49	Bethany Reservoir Inlet	7,243					
	2	Check No. 1	5.95							
		Check No. 2	12.01							
	3		12.47	Musco Olive	30					
		Check No. 3	18.29							
	4		22.16	Tracy Golf & Country Club	0					
		Check No. 4	23.99							
	5	Check No. 5	29.73							
	6	Check No. 6	34.24							
	7		35.22	Turlock Fruit Company Inflow	0					
		Check No. 7	39.91							
	8		42.46	Oak Flat Water District-A	44					
			43.81	Oak Flat Water District-B	26					
			44.64	Oak Flat Water District-C	132					
		Check No. 8	45.97							
	9		46.18	Oak Flat Water District-D	16					
			Oak Flat Totals:	218						
2B	9	Check No. 9	51.30							
	10	Check No. 10	56.86							
	11	Check No. 11	61.40							
	12		66.14	Veteran's Cemetery	3					
		Check No. 12	66.71		34,493					

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries																																				
	Beginning and Ending					Entitle-ment	Ext. M & I Cry. Ovr.	Local	Recre-ation																																	
	No.	Structure	Mile																																							
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	7,243			3																																		
			3.17	Granite - Vasco Rd. (Temp.)	0																																					
			3.18	Oakland Scavenger Zone 7	3																																					
	2	Check No. 1	3.91																																							
2	3		7.21	Zone 7 Altamont	17							17 684																														
		Check No. 3	9.49	Zone 7 Patterson Stored Exchanged	684																																					
				Zone 7 Patterson Project Water	0																																					
4	4	Check No. 4	10.68																																							
	5	Check No. 5	12.29																																							
	6			13.55	Zone 7 Wente #1	20			20																																	
				14.16	Zone 7 Wente #2	20																																				
			Check No. 6	14.65																																						
	7			14.78	Zone 7 Arroyo Mocho	125			125																																	
			Check No. 7	16.38																																						
	5	8	Deliveries through Del Valle Branch Pipeline		16.57	Zone 7 Wente #3	0			29																																
					16.69	Zone 7 Norman Nursery	5											5																								
					16.70	Zone 7 Concannon Stored Exchange	4															4																				
				Del Valle Branch Pipeline Junction	18.63	(Flow into Lake Del Valle)	0																																			
					(Flow into South bay Aqueduct)	565																																				
					Arroyo Valle #1 & #2 Inflow Released	0																																				
					Arroyo Valle #1 & #2 Stored Exchanged	286																											286									
					Lake Del Valle Recreation	8																																8				
					Zone 7 Wente #5	0																																				
					So. Livermore Project	0																																				
6			19.20	So. Livermore Stored Released	565				565																																	
					So. Livermore Stored Exchanged						744							744																								
				19.21	Zone 7 - Kalthrof Detjens						47											47																				
7	La Costa Tunnel		22.50	ACWD Vallecitos	0																																					
				25.97	City of San Francisco San Antonio		0																																			
8	Mission Tunnel		28.97	ACWD - Bayside 1 & 2 Project Water:	0			2,330																																		
				Inflow Released	0																																					
				Stored Exchanged:	2,330																																					
9	Santa Clara Pipeline		35.86	S.C.V.W.D. Meter	2,909	2,909																																				

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

Capacity: 77,106 ac-ft

May 1998

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow				Precipitation (inches)		
				Natural 1/ 3/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation		Total Outflow	
Apr 30	701.82	39,085										
1	701.64	38,960	-125		0	0	189	0	9	198	0.00	
2	701.59	38,925	-35		0	0	137	0	3	140	0.06	
3	701.64	38,960	35		0	0	109	0	4	113	0.02	
4	701.70	39,001	41		0	0	73	0	10	83	1.25	
5	701.79	39,064	63		0	0	36	0	1	37	0.35	
6	701.91	39,148	84		0	0	21	0	2	23	0.21	
7	702.00	39,211	63		0	0	0	0	1	1	0.18	
8	702.08	39,267	56		0	0	0	0	2	2	0.17	
9	702.15	39,316	49		0	0	0	0	6	6	0.00	
10	702.20	39,351	35		0	0	0	0	6	6	0.00	
11	702.26	39,393	42		0	0	0	0	8	8	0.00	
12	702.39	39,484	91		0	0	0	0	0	0	0.22	
13	702.50	39,562	78		0	0	0	0	0	0	0.53	
14	702.58	39,618	56		0	0	0	0	3	3	0.04	
15	702.64	39,660	42		0	0	0	0	5	5	0.00	
16	702.68	39,688	28		0	0	0	0	5	5	0.00	
17	702.73	39,724	36		0	0	0	0	4	4	0.00	
18	702.76	39,745	21		0	0	0	0	7	7	0.00	
19	702.80	39,773	28		0	0	0	0	6	6	0.00	
20	702.82	39,787	14		0	0	0	0	12	12	0.00	
21	702.84	39,801	14		0	0	0	0	6	6	0.00	
22	702.87	39,822	21		0	0	0	0	6	6	0.00	
23	702.88	39,829	7		0	0	0	0	11	11	0.00	
24	702.90	39,844	15		0	0	0	1	7	8	0.00	
25	702.93	39,865	21		0	0	0	1	6	7	0.00	
26	702.95	39,879	14		0	0	0	1	10	11	0.10	
27	702.98	39,900	21		0	0	0	1	5	6	0.05	
28	703.06	39,957	57		0	0	0	1	0	1	0.44	
29	703.11	39,992	35		0	0	0	1	2	3	0.03	
30	703.15	40,021	29		0	0	0	1	4	5	0.00	
31	703.18	40,042	21		0	0	0	1	8	9	0.00	
Total			957		1,687	0	0	565	8	157	730	3.65

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

3/ Not available on a daily basis.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

May 1998

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 56,430 Acre-feet

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Side Flows 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/	
Apr 30	219.46	41,759										
1	222.05	48,517	6,758	1	1,267	5,701	0	0	0	3,493	10	-59
2	222.56	49,873	1,356	1	1,279	3,115	0	0	0	3,712	10	11
3	221.11	46,049	-3,824	1	1,316	35	0	0	21	3,303	10	54
4	222.13	48,730	2,681	1	1,317	3,120	0	0	0	3,250	10	174
5	224.00	53,727	4,997	2	1,351	2,763	0	0	0	1,859	10	272
6	224.23	54,347	620	4	1,475	0	0	0	1,133	194	10	171
7	224.04	53,834	-513	6	1,471	0	0	0	1,275	359	10	-92
8	223.99	53,700	-134	5	1,424	0	0	0	1,133	487	12	135
9	224.11	54,023	323	4	1,432	0	0	0	945	499	16	187
10	222.01	48,411	-5,612	4	1,451	0	0	0	3,489	805	10	20
11	221.88	48,071	-340	4	1,559	0	0	0	1,404	570	10	250
12	221.13	46,101	-1,970	6	1,500	0	0	0	1,866	1,081	10	458
13	220.72	45,027	-1,074	13	1,559	0	0	0	1,575	768	6	236
14	220.93	45,577	550	12	1,617	0	0	0	577	855	6	86
15	220.85	45,368	-209	7	1,606	0	0	0	652	1,028	6	-32
16	221.48	47,020	1,652	5	2,118	0	237	0	651	955	6	85
17	220.07	43,334	-3,686	4	2,518	0	488	0	3,879	1,241	6	258
18	221.03	45,839	2,505	3	2,518	0	439	0	646	1,078	6	33
19	221.25	46,416	577	3	2,504	0	442	0	648	1,922	6	-82
20	221.05	45,892	-524	3	2,482	0	811	0	1,924	1,677	6	47
21	220.46	44,348	-1,544	3	2,394	0	657	0	2,339	1,707	6	220
22	219.76	42,531	-1,817	3	2,213	0	1,613	0	2,183	2,699	10	147
23	219.87	42,815	284	3	2,207	0	1,607	0	1,504	2,273	9	112
24	220.28	43,879	1,064	3	2,563	0	1,994	0	1,710	2,472	9	167
25	220.81	45,263	1,384	3	3,045	0	1,693	0	1,710	2,523	8	198
26	221.91	48,150	2,887	3	2,706	0	1,967	0	771	2,510	8	69
27	222.09	48,624	474	3	1,940	0	1,716	0	1,069	2,409	10	68
28	222.20	48,916	292	3	1,634	0	1,706	0	1,013	2,240	10	67
29	222.14	48,756	-160	3	1,638	0	666	0	581	1,865	10	68
30	221.52	47,125	-1,631	3	1,627	0	378	0	646	2,229	10	55
31	221.05	45,892	-1,233	2	1,491	0	975	0	383	2,701	10	4
Total			4,133	121	57,222	14,734	17,389	0	35,727	54,764	276	3,387
Mean cfs			- - -	4	1,846	475	561	0	1,152	1,767	9	109
ac-ft			4,133	240	113,498	29,226	34,493	0	70,871	108,629	548	6,724

1/ Sideflows from floodwater at Drain Inlet.

2/ Includes 0 AF delivered to DFG at O'Neill Forebay; does not include Parks and Recreation deliveries shown on Table 19. Total Parks and Recreation deliveries for the year are included in December's operation report.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

May 1998

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Sisk Dam Spill	
Apr 30	540.79	1,999,821						
1	539.89	1,988,451	-11,370	0	5,701	131	0	100
2	539.41	1,982,397	-6,054	0	3,115	127	0	190
3	539.39	1,982,145	-252	21	35	131	0	18
4	538.92	1,976,223	-5,922	0	3,120	134	0	268
5	538.57	1,971,817	-4,406	0	2,763	119	0	661
6	538.70	1,973,453	1,636	1,133	0	114	0	-194
7	538.87	1,975,593	2,140	1,275	0	20	0	-176
8	539.04	1,977,734	2,141	1,133	0	114	0	60
9	539.12	1,978,742	1,008	945	0	112	0	-325
10	539.60	1,984,793	6,051	3,489	0	107	0	-331
11	539.77	1,986,937	2,144	1,404	0	111	0	-212
12	540.11	1,991,229	4,292	1,866	0	98	0	396
13	540.33	1,994,007	2,778	1,575	0	95	0	-79
14	540.40	1,994,891	884	577	0	216	0	85
15	540.47	1,995,776	885	652	0	90	0	-116
16	540.57	1,997,040	1,264	651	0	93	0	79
17	541.07	2,003,363	6,323	3,879	0	92	0	-599
18	541.13	2,004,122	759	646	0	96	0	-167
19	541.22	2,005,261	1,139	648	0	102	0	28
20	541.46	2,008,300	3,039	1,924	0	82	0	-310
21	541.77	2,012,227	3,927	2,339	0	67	0	-292
22	542.06	2,015,903	3,676	2,183	0	86	0	-244
23	542.27	2,018,567	2,664	1,504	0	94	0	-67
24	542.32	2,019,201	634	1,710	0	99	0	-1,291
25	542.55	2,022,120	2,919	1,710	0	91	0	-147
26	542.63	2,023,136	1,016	771	0	80	0	-179
27	542.76	2,024,787	1,651	1,069	0	69	0	-168
28	542.92	2,026,819	2,032	1,013	0	58	0	69
29	543.00	2,027,835	1,016	581	0	54	0	-15
30	543.02	2,028,090	255	646	0	63	0	-454
31	543.07	2,028,725	635	383	0	64	0	1
Total			28,904	35,727	14,734	3,009	0	-3,411
Mean cfs			--	1,152	475	97	0	-110
ac-ft			28,904	70,871	29,226	5,966	0	-6,775

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 5,374 AF, San Benito: 592 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

May 1998

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/, 2/	Total Generation	SWP Generation 1/, 2/	Total Pumping	SWP Pumping 1/, 2/	Federal
1	6,928	1,781	11,308	-73	0	0	260
2	7,363	1,926	6,179	-28	0	0	252
3	6,552	1,097	69	70	42	42	260
4	6,446	591	6,189	137	0	0	266
5	3,687	337	5,481	-49	0	0	236
6	385	48	0	0	2,247	1,687	226
7	712	97	0	0	2,529	8	40
8	966	153	0	0	2,247	18	226
9	990	171	0	0	1,874	30	222
10	1,597	307	0	0	6,920	8	212
11	1,131	307	0	0	2,785	-50	220
12	2,144	373	0	0	3,701	-89	194
13	1,523	708	0	0	3,124	-26	188
14	1,696	789	0	0	1,144	2	428
15	2,039	1,244	0	0	1,293	0	179
16	1,894	1,105	0	0	1,291	-2	184
17	2,462	1,678	0	0	7,694	-107	182
18	2,138	1,192	0	0	1,281	-2	190
19	3,812	2,914	0	0	1,285	8	202
20	3,326	2,114	0	0	3,816	-81	163
21	3,386	2,085	0	0	4,639	-103	133
22	5,353	4,048	0	0	4,330	-119	171
23	4,508	3,136	0	0	2,983	-16	186
24	4,903	2,465	0	0	3,392	-14	196
25	5,004	3,310	0	0	3,392	60	180
26	4,979	3,293	0	0	1,529	-18	159
27	4,778	3,128	0	0	2,120	-50	137
28	4,443	1,297	0	0	2,010	-36	115
29	3,700	540	0	0	1,154	246	107
30	4,423	1,281	0	0	1,283	1,281	125
31	5,359	2,231	0	0	762	760	125
Total	108,629	45,747	29,226	57	70,871	3,437	5,966

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
May 1998

United States
 Department of the Interior
 Bureau of Reclamation
 Central Valley Project

State of California
 The Resources Agency
 Department of Water Resources
 State Water Project

Capacity: 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)	Evap. (in)	Prec. (in)
					Spill	Outlet			
Apr 30	329.27	21,272							
1	329.46	21,363	91	46	0	0	0	0.47	0.00
2	329.54	21,401	38	19	0	0	1	0.26	0.00
3	329.64	21,449	48	24	0	0	1	0.11	0.04
4	329.80	21,526	77	39	0	0	0	0.17	0.21
5	330.26	21,748	222	137	0	25	0	0.14	0.22
6	329.97	21,608	-140	130	0	200	-1	0.11	0.16
7	329.65	21,454	-154	123	0	200	-1	0.11	0.05
8	329.41	21,339	-115	50	0	108	0	0.30	0.00
9	329.56	21,411	72	36	0	0	1	0.23	0.00
10	329.69	21,473	62	31	0	0	1	0.44	0.00
11	329.81	21,531	58	29	0	0	1	0.33	0.00
12	330.15	21,695	164	83	0	0	-1	0.10	0.28
13	330.26	21,748	53	143	0	116	-1	0.17	1.65
14	329.75	21,502	-246	76	0	200	0	0.16	0.01
15	329.56	21,411	-91	54	0	100	0	0.20	0.00
16	329.71	21,483	72	36	0	0	1	0.28	0.00
17	329.86	21,555	72	36	0	0	1	0.28	0.00
18	330.00	21,623	68	34	0	0	1	0.32	0.00
19	330.10	21,671	48	24	0	0	1	0.38	0.00
20	330.20	21,719	48	24	0	0	1	0.39	0.00
21	330.29	21,763	44	22	0	0	0	0.33	0.00
22	330.39	21,811	48	24	0	0	1	0.37	0.00
23	330.46	21,845	34	17	0	0	0	0.39	0.00
24	330.54	21,884	39	20	0	0	-1	0.40	0.00
25	330.61	21,918	34	17	0	0	0	0.34	0.00
26	330.67	21,947	29	15	0	0	-1	0.39	0.00
27	330.75	21,986	39	20	0	0	-1	0.26	0.00
28	330.80	22,010	24	12	0	0	0	0.20	Trace
29	330.92	22,069	59	30	0	0	-1	0.16	0.00
30	331.01	22,113	44	22	0	0	0	0.27	0.00
31	331.05	22,132	19	10	0	0	-1	0.28	0.00
Total			860	1,383	0	949	2	8.34	2.62
Mean cfs-days			---	45	0	31	---	---	---
Acre-feet			860	2,743	0	1,885	2	---	---

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

May 1998

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

Capacity: 5,580 ac-ft

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Computed Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	602.80	838					
1	Not Observed			8	0	7	-2
2	Not Observed			8	0	7	-2
3	Not Observed			8	0	7	-2
4	602.90	844	6	16	0	15	4
5	603.05	853	9	30	0	25	-1
6	603.10	856	3	32	0	30	-1
7	603.05	853	-3	23	0	25	1
8	602.90	844	-9	10	0	15	1
9	Not Observed			14	0	15	2
10	Not Observed			14	0	15	2
11	Not Observed			14	0	15	2
12	Not Observed			14	0	15	2
13	602.80	838	-6	9	0	10	-4
14	Not Observed			9	0	10	2
15	602.75	835	-3	13	0	14	-1
16	Not Observed			14	0	14	0
17	Not Observed			15	0	14	-2
18	Not Observed			14	0	14	0
19	Not Observed			15	0	14	-2
20	Not Observed			15	0	15	0
21	Not Observed			15	0	15	0
22	602.80	838	3	16	0	15	1
23	Not Observed			15	0	15	0
24	Not Observed			15	0	15	0
25	Not Observed			15	0	15	0
26	Not Observed			15	0	15	0
27	Not Observed			15	0	15	0
28	Not Observed			15	0	15	0
29	602.80	838	0	15	0	15	0
30	Not Observed			15	0	15	0
31	602.80	838	0	12	0	12	0
Total			0	458	0	458	---
Mean cfs			---	15	0	15	---
ac-ft			0	908	0	908	0

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries				
	Beginning and Ending					USBR	Transfer	DWR Recreation	USBR Recreation	
	No.	Structure	Mile							
2B	12	Check No. 12	66.71		34,493					
3	13	O'Neill Forebay		Department of Parks and Recreation	6			3	3	
		Outlet Check No. 13	70.85	Department of Fish & Game	0			0	0	
			70.91	San Luis Water District	548	548				
		Thru	85.08							
				Reach 3 Subtotal:	554	548	0	3	3	
		Dos Amigos Pumping Plant	86.73		108,629					
4	14		89.03	San Luis Water District	2,862	2,862				
		Thru	94.06							
			89.66	Pacheco Water District	537	537				
		Thru	89.67							
			89.68	Panoche Water District	3	3				
		89.70	City of Dos Palos	85	85					
			Check No. 14	95.06						
	15			98.15	San Luis Water District	206	206			
		Thru	104.20							
			96.15	Panoche Water District	1,528	1,528				
Thru		102.64								
		102.64	Broadview Water District	0						
	105.22	Westlands Water District	5,937	5,937						
Thru	108.64									
		Check No. 15	108.50							
				Pacheco Water District Total:	537	537	0	0	0	
				Broadview Water District Total:	0	0	0	0	0	
				City of Dos Palos Total:	85	85	0	0	0	
				SLWD Reach 4 Subtotal:	3,068	3,068	0	0	0	
				Panoche Water District Total:	1,531	1,531	0	0	0	
				SLWD Total:	3,616	3,616	0	0	0	
				Westlands WD Reach 4 Subtotal:	5,937	5,937	0	0	0	

Table 19b. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver- sions	Deliveries			
	Beginning and Ending					USBR	Exchange Entitlement 1/	DWR Recreation	USBR Recreation
	No.	Structure	Mile						
5	16		110.52 Thru 122.05	Westlands Water District Department of Fish and Game	8,560 0	8,560			
		Check No. 16	122.07						
	17		124.18 Thru 132.74	Westlands Water District	10,001	10,001			
		Check No. 17	132.95						
	18		133.81 Thru 142.61	Westlands Water District	9,889	9,889			
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	7,952		7,952		
			143.16	City of Coalinga	266		266		
		Check No. 18	143.23						
				Westlands WD Reach 5 Subtotal:	36,402	36,402	0	0	0
	6	19		145.26 Thru 151.19	Westlands Water District	13,135	13,135		
Check No. 19			155.64						
				Westlands WD Reach 6 Subtotal:	13,135	13,135	0	0	0
7	20		156.34	City of Huron	63	63			
			156.40 Thru 163.69	Westlands Water District	4,443		4,443		
		Check No. 20	164.69						
	21		164.79	City of Avenal	181	181			
			167.04 Thru 171.67	Westlands Water District	3,119		3,119		
		Check No. 21	172.40						
			Reach 7 Total:	7,806	244	7,562	0	0	
			Westlands WD Total:	63,036	55,474	7,562	0	0	
			City of Coalinga Total:	266	266	0	0	0	
			City of Huron Total:	63	63	0	0	0	
			City of Avenal Total:	181	181	0	0	0	
			Phase I Water Total:	8	8	0	0	0	
Total San Luis Field Division Deliveries:					69,329	61,761	7,562	3	3

1/ KCWA agricultural entitlement delivered to WWD in accordance to exchange agreement dated 5-13-98.

**Table 20. Consolidated State-Federal San Luis Canal 1/
Daily Operations
May 1998**

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project 2/	Dos Amigos Pumping Plant	San Luis Water Dist. 3/	Panoche Water District	Westlands Water Dist. 4/	Flow Past Check 21	
Apr 30	27,541								
1	27,514	-27	60	3,493	54	42	1,487	1,672	-312
2	28,412	898	75	3,712	55	36	1,548	1,250	-445
3	28,523	111	75	3,303	56	42	1,784	1,106	-334
4	29,369	846	81	3,250	105	42	2,111	892	245
5	30,492	1,123	55	1,859	87	42	1,081	621	483
6	30,050	-442	73	194	87	41	1,083	246	967
7	29,705	-345	29	359	45	31	396	263	173
8	29,452	-253	24	487	42	31	397	190	22
9	29,038	-414	3	499	37	20	364	163	-126
10	29,083	45	3	805	37	20	417	92	-220
11	28,330	-753	3	570	38	20	444	216	-234
12	28,553	223	13	1,081	52	23	549	267	-90
13	28,819	266	17	768	40	23	465	160	37
14	28,432	-387	108	855	25	20	708	447	42
15	28,036	-396	106	1,028	25	15	693	618	17
16	27,972	-64	103	955	26	15	699	241	-109
17	28,366	394	103	1,241	26	10	688	339	-83
18	27,868	-498	104	1,078	50	15	824	450	-94
19	28,398	530	102	1,922	42	10	830	503	-372
20	28,066	-332	102	1,677	51	10	762	603	-520
21	27,574	-492	58	1,707	55	10	1,333	635	20
22	28,002	428	58	2,699	56	10	1,293	925	-258
23	27,793	-209	69	2,273	68	15	1,243	869	-253
24	28,560	767	66	2,472	68	24	1,159	593	-307
25	28,904	344	63	2,523	70	24	1,478	697	-144
26	29,084	180	88	2,510	74	25	1,403	824	-181
27	29,168	84	90	2,409	78	30	1,332	822	-194
28	28,913	-255	88	2,240	99	31	1,386	941	0
29	28,441	-472	90	1,865	98	30	1,360	570	-135
30	28,027	-414	90	2,229	96	30	1,268	781	-353
31	28,387	360	91	2,701	118	35	1,456	1,026	25
Total		846	2,090	54,764	1,860	772	32,041	19,022	-2,733
Mean (cfs)		- - -	67	1,767	60	25	1,034	614	-88
Acre-feet		846	4,145	108,629	3,690	1,531	63,554	37,730	-5,423

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (3,553 AF @ Lat.7L) and Flood Water (592 AF) is included in the gain or loss.

3/ Includes 537 AF AG & 1 AF M&I to Pacheco W.D. and 85 AF to the City of Dos Palos.

4/ Includes 63 AF to the City of Huron, 181 AF to the City of Avenal, 266 AF to the City of Coalinga, 8 AF Phase I Water @ Lat. 13R, and 0 AF to Broadview W.D.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

May 1998

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	599	583	81	84	83	3,163	2,923	2,713	2,564
2	469	462	62	63	63	3,209	2,681	2,493	2,482
3	432	448	81	82	82	3,205	2,952	2,809	2,686
4	280	282	17	17	18	3,201	3,201	3,053	2,847
5	263	299	82	76	84	3,245	3,030	2,931	2,901
6	93	104	30	29	30	3,455	3,399	3,244	2,686
7	110	117	44	46	48	2,759	2,825	2,766	2,766
8	100	109	45	44	45	1,471	1,267	1,073	966
9	113	127	29	30	31	1,365	1,389	1,250	1,309
10	84	93	49	50	52	1,336	1,264	1,128	1,036
11	312	313	55	56	58	1,388	1,437	1,343	1,309
12	335	341	53	53	55	1,418	1,465	1,349	1,309
13	213	221	45	45	47	1,577	1,520	1,429	1,481
14	268	279	48	50	51	1,418	1,443	1,363	1,285
15	367	376	21	21	21	1,445	1,382	1,210	1,145
16	404	429	0	0	0	1,471	1,415	1,246	1,227
17	349	356	0	0	0	1,365	1,467	1,401	1,336
18	368	340	0	0	0	1,524	1,573	1,327	1,282
19	389	345	0	0	0	1,524	1,459	1,314	1,200
20	350	293	0	0	0	1,524	1,447	1,278	1,287
21	343	285	10	10	10	1,604	1,568	1,371	1,279
22	327	240	36	33	39	1,972	1,709	1,525	1,391
23	277	242	35	33	37	1,974	1,499	1,301	1,125
24	279	229	68	68	68	1,392	1,438	1,352	1,300
25	313	306	26	27	30	1,815	1,429	1,211	1,107
26	414	404	37	38	40	1,868	1,762	1,532	1,602
27	410	398	47	47	78	2,133	1,944	1,789	1,556
28	369	323	66	67	71	2,292	2,005	1,887	1,802
29	310	378	51	48	55	2,381	2,180	1,979	1,882
30	304	267	31	33	33	2,611	2,254	2,120	2,018
31	346	315	74	74	74	2,985	2,859	2,666	2,648
Total	9,590	9,304	1,223	1,224	1,303	64,090	60,186	55,453	52,814

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries				
	Beginning and Ending					Entitle-ment	Inter-ruptible Ent.	Exchange	MWD Ent. 1/	
	No.	Structure	Mile							
7	21	Check No. 21	172.40		37,730					
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	82				
				County of Kings TL - A	0					
				TLBWSD TL-A	0					
8D			175.18	DRWD - 1	82	520				
			180.64	TLBWSD - C	0					
			180.65	DRWD - 1A	18					
			182.99	Dudley Ridge Water Dist. DRWD - 2	520					
31A			183.00	TLB WSD TL - B	13	13				
			184.63	Coastal Branch	9,590					
8D			184.78	Dudley Ridge Water Dist. DRWD - 3	157	157				
				Dudley Ridge Reach 8D Total:	777	777	0	0	0	
				Tulare Lake Basin WSD Total:	13	13	0	0	0	
9	23		184.82	Check No. 22		2,415				
			189.69	Kern County Water Agency Lost Hills Water Dist. - 1	2,415					
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	193					
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	198					
			196.40	Kern County Water Agency Berrenda Mesa - 2	0					
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	42					
	K.C.W.A. Reach 9 Subtotal:	2,848	2,848	0	0	0				
	Check No. 23	197.05								
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	323	323				
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	454					
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0					
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0					
			207.94	Check No. 24						
	25			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	589	589			
				209.78	Kern National Wildlife Refuge USBR BV-1B	0				
					Kern County Water Agency Buena Vista WSD 1B	0				
				209.80	KCWA Semitropic WSD	3,048				
					KCWA Semitropic WSD Penstocks	10,964				
	USBR Total:	0	0	0	0	0				
	K.C.W.A. Reach 10A Subtotal:	15,378	1,378	0	0	14,000				

1/ Semitropic Water Storage District is storing this water for MWD.

Table 22b. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries			
	Beginning and Ending					Entitle-ment	Inter-ruptible Ent.	Exchange	MWD Ent.
	No.	Structure	Mile						
11B	25		210.75	Kern County Water Agency Belridge - 2	0	4,157			
			214.11	Kern County Water Agency Belridge - 3	0				
			216.62	Kern County Water Agency Belridge - 4	0				
			217.13	Kern County Water Agency Belridge - 5	4,157				
				Kern County Water Agency Belridge - 5D	71				
			Check No. 25	217.79					
K.C.W.A. Reach 11B Subtotal:					4,228	4,228	0	0	0
12D	26		219.58	Kern County Water Agency Belridge - 6	0				
			Check No. 26	224.92					
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0				
			Check No. 27	231.73					
	28		235.75	Kern County Water Agency Buena Vista - 2	0				
			238.04	KCWA CVC (inflow)	2/ 2,560				
				DRWD CVC	0				
				Tulare Co.	0				
				Lower Tule River	0				
				Fresno Co.	0				
				Pixley ID	0				
			Hacienda DWR Wells	0					
Check No. 28	238.11								
1/ Arvin Edison Total:					0	0	0	0	0
Reach 12E Subtotal:					0	0	0	0	0
13B	29		241.02	Kern River Intertie (inflow)	61,720				
			242.85	KCWA Buena Vista WSD - 7	0				
				KCWA Buena Vista WSD - 5	0				
			243.09	Kern County Water Agency Buena Vista - 3	0				
	Check No. 29	244.54	Buena Vista WSD	0					
	30		249.85	Kern County Water Agency Buena Vista - 4	0				
Buena Vista Pumping Plant			250.99	64,090					
K.C.W.A. Reach 13B Subtotal:					0	0	0	0	0
14A	31		254.47	Kern County Water Agency West Kern - 2	0	145			
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	145				

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Local flood water from the Cross Valley Canal flowing into the Aqueduct that became SWP water.

Table 22c. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries			
	Beginning and Ending					Entitle-ment	Inter-ruptible Ent.	Exchange	MWD Ent.
	No.	Structure	Mile						
14A	31	Check No. 31	256.14						
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	58	58			
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	464	464			
		Check No. 32	261.72						
				KCWA Reach 14A Subtotal:	667	667	0	0	0
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,652	1,652			
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	291	291			
		Check No. 33	267.36						
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,332	1,332			
		Check No. 34	271.27						
				Reach 14B Total:	3,275	3,275	0	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	911	911			
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	986	986			
				Reach 14C Total:	1,897	1,897	0	0	0
		Teerink Pumping Plant	278.13		60,186				
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	312	312			
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	2,881	2,881			
				Reach 15-A Total:	3,193	3,193	0	0	0
		Chrisman Pumping Plant	280.36		55,453				
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0				
		Check No. 37	283.95						
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	0				
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	362	362			
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0				
		Check No. 38	287.09						
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	126	126			
Check No. 39		290.21							
40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,102	1,102				
		293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	279	279				
			KCWA TC-15	367	367				
			K.C.W.A. Reach 16A Subtotal:	2,236	2,236	0	0	0	
17E		Edmonston Pumping Plant	293.45		52,814				

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending					Entitle-ment	Inter-ruptible Ent.	MWD Entitlement 1/	Exchange				
	No.	Structure	Mile										
31A	C-1	Coastal Branch Control	0.02		9,590	107							
		Las Perillas Pumping Plant	1.16		9,590								
	C-2		3.79	Green Valley Water District	0								
		Badger Hill Pumping Plant	4.27		9,304								
	C-3	Coastal Check No. 3	7.21										
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	107								
		Coastal Check No. 4	9.34										
	C-5	Coastal Check No. 5	12.20										
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	508					508	7,036		
			14.83	Kern County Water Agency Berrenda Mesa - DD	0								
				Kern County Water Agency Berrenda Mesa - PO	7,036								
		Devil's Den Pumping Plant	14.86		1,223								
				K.C.W.A. Reach 31A Subtotal:	7,544	7,544	0	0	0				
				K.C.W.A. Total:	41,266	27,266	0	14,000	0				
33A	C-7	Bluestone Pumping Plant	19.05		1,224	1,032							
	C-8	Polonio Pass Pumping Plant	26.54		1,303								
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant									
33B	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,032	235							
		Tank Site 2	58.63	Central Coast:	0								
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	235								
		Energy Dissipater	78.12										
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0	1,267	1,267	0	0				
				CCWA Total:	1,267								
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0								
		Santa Maria T.O.	107.43	SBCFC & WCD	0								
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0								
38				SBCFC & WCD Total:	0	0	0	0	0				
		Tank Site 5	115.42										

1/ Semitropic Water Storage District is storing this water for MWD.

Table 24. Southern Field Division Plant Data

May 1998

(in acre-feet)

Date	West Branch				East Branch						
	Oso Pumping Plant	Warne Powerplant Generation	Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant		Devil Canyon Powerplant Generation
			Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Bypass Flume	
1	0	0	4,926	4,130	2,536	0	0	1,902	2,078	0	2,062
2	0	0	1,664	5,558	2,469	0	0	2,096	2,179	0	1,921
3	0	0	911	4,633	2,690	0	0	2,102	2,115	0	1,886
4	0	0	5,681	1,669	2,803	0	0	2,345	2,373	38	2,051
5	0	0	5,214	2,999	2,939	0	22	2,651	2,772	1	1,944
6	0	0	5,711	3,919	3,004	0	0	2,601	2,679	2	1,729
7	0	0	3,277	4,452	2,758	0	0	2,532	2,474	1	1,226
8	0	0	4,200	3,123	962	0	0	869	1,001	7	892
9	0	0	1,265	2,220	1,288	0	0	975	1,107	1	946
10	0	0	1,230	4,319	1,061	0	0	1,020	953	1	967
11	0	0	6,285	3,211	1,338	0	0	975	726	1	916
12	0	0	3,475	3,725	1,300	0	0	1,253	1,465	0	677
13	0	0	371	2,177	1,479	0	0	1,091	807	0	981
14	0	0	1,105	1,107	1,239	0	0	975	901	0	972
15	0	0	2,129	0	1,140	0	0	889	1,008	0	1,069
16	0	0	525	842	1,237	0	0	1,183	1,105	0	1,145
17	0	0	1,081	1,219	1,274	0	0	1,091	1,196	0	1,286
18	0	0	6,337	3,821	1,303	0	0	1,167	1,272	0	1,354
19	0	0	5,595	5,307	1,183	0	0	1,021	1,111	0	1,204
20	0	0	5,282	3,390	1,308	0	0	946	990	24	1,314
21	0	0	4,942	3,152	1,241	0	0	1,160	1,146	9	1,461
22	0	0	4,511	2,945	1,349	0	0	1,085	820	9	1,382
23	0	0	581	3,166	1,159	0	0	850	795	11	1,322
24	0	0	732	2,676	1,229	0	0	952	1,101	12	1,351
25	0	0	992	2,482	1,077	0	0	1,111	1,075	12	1,252
26	0	0	3,517	2,053	1,594	0	0	1,209	1,157	26	1,493
27	0	0	3,860	2,830	1,556	0	0	1,230	1,335	36	1,446
28	0	0	5,624	2,202	1,725	0	0	1,508	1,654	36	1,682
29	0	0	4,821	2,185	1,870	0	0	1,624	1,507	16	1,750
30	0	0	1,124	3,962	1,967	0	0	1,714	1,422	0	1,575
31	0	0	550	4,475	2,552	0	0	2,595	2,610	0	1,577
Total	0	0	97,518	93,949	52,630	0	22	44,722	44,934	243	42,833

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek	
Apr 30	2567.13	156,245								
1	2566.64	155,646	-599	4,130	0	404	4,926	0	50	-157
2	2570.18	160,001	4,355	5,558	0	425	1,664	0	50	86
3	2573.51	164,169	4,168	4,633	0	502	911	0	50	-6
4	2570.66	160,598	-3,571	1,669	0	507	5,681	0	50	-16
5	2569.74	159,456	-1,142	2,999	0	881	5,214	0	50	242
6	2569.18	158,763	-693	3,919	0	977	5,711	0	50	172
7	2570.66	160,598	1,835	4,452	0	685	3,277	0	50	25
8	2570.20	160,026	-572	3,123	0	628	4,200	0	50	-73
9	2571.32	161,420	1,394	2,220	0	553	1,265	0	50	-64
10	2574.23	165,080	3,660	4,319	0	513	1,230	0	50	108
11	2571.99	162,258	-2,822	3,211	0	485	6,285	0	50	-183
12	2572.74	163,199	941	3,725	0	552	3,475	0	50	189
13	2574.83	165,841	2,642	2,177	0	682	371	0	50	204
14	2575.54	166,745	904	1,107	0	755	1,105	0	50	197
15	2574.27	165,130	-1,615	0	0	666	2,129	0	50	-102
16	2575.00	166,057	927	842	0	611	525	0	50	49
17	2575.53	166,732	675	1,219	0	556	1,081	0	50	31
18	2573.96	164,738	-1,994	3,821	0	519	6,337	0	50	53
19	2574.02	164,814	76	5,307	0	488	5,595	0	50	-74
20	2572.83	163,312	-1,502	3,390	0	474	5,282	0	50	-34
21	2571.56	161,720	-1,592	3,152	0	463	4,942	0	50	-215
22	2570.63	160,560	-1,160	2,945	0	439	4,511	0	50	17
23	2573.14	163,703	3,143	3,166	0	420	581	0	50	188
24	2574.97	166,019	2,316	2,676	0	407	732	0	50	15
25	2576.48	167,946	1,927	2,482	0	401	992	0	50	86
26	2575.59	166,808	-1,138	2,053	0	390	3,517	0	50	-14
27	2575.03	166,095	-713	2,830	0	372	3,860	0	50	-5
28	2572.40	162,772	-3,323	2,202	0	356	5,624	0	50	-207
29	2570.56	160,473	-2,299	2,185	0	345	4,821	0	50	42
30	2572.94	163,451	2,978	3,962	0	329	1,124	0	50	-139
31	2576.52	167,997	4,546	4,475	0	317	550	0	30	334
Total			11,752	93,949	0	16,102	97,518	0	1,530	749

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) Gains (+)
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake		
							Natural	Project	
Apr 30	1531.38	28,324							
1	1531.50	28,380	56	4,926	85	4,130	85	746	6
2	1522.93	24,505	-3,875	1,664	93	5,558	93	0	19
3	1514.34	20,893	-3,612	911	103	4,633	103	0	110
4	1520.02	23,249	2,356	5,681	113	1,669	113	384	-1,272
5	1526.18	25,941	2,692	5,214	1,076	2,999	1,076	0	477
6	1530.72	28,015	2,074	5,711	583	3,919	583	0	282
7	1526.86	26,247	-1,768	3,277	250	4,452	250	90	-503
8	1529.69	27,538	1,291	4,200	252	3,123	252	0	214
9	1527.27	26,433	-1,105	1,265	249	2,220	249	0	-150
10	1519.30	22,944	-3,489	1,230	243	4,319	243	106	-294
11	1526.91	26,270	3,326	6,285	219	3,211	219	0	252
12	1526.83	26,234	-36	3,475	284	3,725	284	0	214
13	1523.53	24,767	-1,467	371	414	2,177	414	0	339
14	1520.89	23,623	-1,144	1,105	378	1,107	378	606	-536
15	1523.20	24,623	1,000	2,129	338	0	338	1,323	194
16	1522.90	24,492	-131	525	304	842	304	0	186
17	1521.52	23,893	-599	1,081	266	1,219	266	341	-120
18	1527.84	26,690	2,797	6,337	245	3,821	245	0	281
19	1529.16	27,294	604	5,595	222	5,307	222	0	316
20	1533.37	29,262	1,968	5,282	208	3,390	208	0	76
21	1532.52	28,859	-403	4,942	199	3,152	199	1,126	-1,067
22	1534.13	29,623	764	4,511	188	2,945	188	837	35
23	1528.59	27,032	-2,591	581	175	3,166	175	0	-6
24	1522.53	24,330	-2,702	732	174	2,676	174	603	-155
25	1519.04	22,833	-1,497	992	161	2,482	161	0	-7
26	1517.28	22,097	-736	3,517	160	2,053	160	0	-2,200
27	1520.11	23,287	1,190	3,860	159	2,830	159	0	160
28	1524.86	25,353	2,066	5,624	149	2,202	149	1,006	-350
29	1528.01	26,768	1,415	4,821	139	2,185	139	984	-237
30	1521.56	23,910	-2,858	1,124	134	3,962	134	0	-20
31	1512.13	20,013	-3,897	550	123	4,475	123	0	28
Total			-8,311	97,518	7,686	93,949	7,686	8,152	-3,728

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) Gains (+)
				From Elderberry Forebay		Natural	Deliveries	Released To Castaic Lagoon	
				Natural	Project				
Apr 30	1513.05	319,358							
1	1513.35	320,023	665	85	746	119	602	0	317
2	1513.15	319,579	-444	93	0	110	636	0	-11
3	1513.05	319,358	-221	103	0	122	446	0	0
4	1513.75	320,912	1,554	113	384	273	457	0	1,241
5	1513.95	321,357	445	1,076	0	1,038	401	0	-1,268
6	1514.05	321,580	223	583	0	600	314	0	-646
7	1514.30	322,137	557	250	90	531	154	397	237
8	1514.10	321,691	-446	252	0	516	270	397	-547
9	1513.90	321,246	-445	249	0	486	300	397	-483
10	1513.90	321,246	0	243	106	469	348	397	-73
11	1513.70	320,801	-445	219	0	476	324	397	-419
12	1513.70	320,801	0	284	0	476	283	397	-80
13	1513.49	320,334	-467	414	0	578	299	397	-763
14	1514.04	321,557	1,223	378	606	507	457	397	586
15	1514.54	322,672	1,115	338	1,323	379	678	397	150
16	1514.34	322,226	-446	304	0	353	469	397	-237
17	1514.34	322,226	0	266	341	347	470	397	-87
18	1514.03	321,535	-691	245	0	341	600	397	-280
19	1513.73	320,868	-667	222	0	321	502	397	-311
20	1513.33	319,979	-889	208	0	293	507	397	-486
21	1514.03	321,535	1,556	199	1,126	277	527	397	878
22	1514.13	321,758	223	188	837	260	593	397	-72
23	1513.73	320,868	-890	175	0	235	703	397	-200
24	1513.73	320,868	0	174	603	236	553	397	-63
25	1513.33	319,979	-889	161	0	231	510	397	-374
26	1513.93	321,313	1,334	160	0	219	592	200	1,747
27	1513.63	320,645	-668	159	0	216	807	5	-231
28	1513.95	321,357	712	149	1,006	204	689	0	42
29	1514.25	322,025	668	139	984	197	680	0	28
30	1513.95	321,357	-668	134	0	187	738	0	-251
31	1513.75	320,912	-445	123	0	174	715	0	-27
Total			1,554	7,686	8,152	10,771	15,624	7,748	-1,683

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending					Entitle-ment	Rec.	Local	Flood Water No-charge	CLWA T1	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		0						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved						
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07		0						
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0						
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0						
29J	W4	Castaic Power Plant	25.82	(93,949 AF pumpback)	97,518						
		Elderberry Forebay									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	15		15				
		Castaic Dam	31.47								
		Castaic Lake Outlet	MWD - 78"		14,087		14,861				
			MWD - 132"		0						
			CLWA - T1		774		774				
			Castaic Lake Water Agency		748		748				
			United Water Conservation Dist.		0						
			Ventura County FCD		Stub						
			LA Co. Parks & Recreation		0						
			Releases to Lagoon		7,748						
Reach 30 Subtotal:					15,624	16,383	15	0	0	-774	
W6	Castaic Lagoon			Recreation to Lagoon	115		115				
	Castaic Lagoon Outlet	31.87			7,592						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

May 1998

Date	Water Surface Elev. (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) Gains (+)	Las Flores Ranch Exchange 1/	
				Project		Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-Plant	Mojave Bypass Flume		Delivered to CLAWA	Rec.	San Bernardino Tunnel					
Apr 30	3347.43	67,780												
1	3347.39	67,743	-37	2,078	0	114	0	0	2,062	0	81	-86	46	
2	3347.71	68,039	296	2,179	0	113	0	0	1,921	0	79	4	46	
3	3347.97	68,279	240	2,115	0	118	0	0	1,886	0	81	-26	46	
4	3348.47	68,744	465	2,373	38	172	0	0	2,051	0	79	12	46	
5	3350.04	70,214	1,470	2,772	1	675	4	0	1,944	0	81	51	46	
6	3351.18	71,292	1,078	2,679	2	604	5	0	1,729	0	355	-118	46	
7	3352.23	72,293	1,001	2,474	1	356	0	0	1,226	0	557	-47	46	
8	3352.11	72,178	-115	1,001	7	272	5	0	892	0	490	-8	46	
9	3352.22	72,283	105	1,107	1	238	5	0	946	0	246	-44	46	
10	3352.18	72,197	-86	953	1	217	0	0	967	0	202	-88	46	
11	3351.93	72,025	-172	726	1	198	0	0	916	0	200	19	46	
12	3353.13	73,157	1,132	1,465	0	604	0	0	677	0	288	28	46	
13	3353.03	73,060	-97	807	0	901	0	0	981	0	863	39	46	
14	3352.72	72,762	-298	901	0	587	0	0	972	0	712	-102	46	
15	3352.61	72,657	-105	1,008	0	469	4	1	1,069	0	462	-46	46	
16	3352.63	72,676	19	1,105	0	405	4	1	1,145	0	301	-40	46	
17	3352.51	72,561	-115	1,196	0	343	3	1	1,286	0	280	-84	46	
18	3352.42	72,475	-86	1,272	0	298	3	0	1,354	0	200	-99	46	
19	3352.42	72,475	0	1,111	0	268	0	0	1,204	0	202	27	46	
20	3352.07	72,140	-335	990	24	247	0	0	1,314	0	200	-82	31	
21	3351.66	71,749	-391	1,146	9	225	0	0	1,461	0	202	-108	33	
22	3351.03	71,150	-599	820	9	212	0	0	1,382	0	200	-58	40	
23	3350.44	70,591	-559	795	11	198	0	0	1,322	0	201	-40	40	
24	3350.18	70,346	-245	1,101	12	189	0	0	1,351	0	199	3	40	
25	3349.96	70,139	-207	1,075	12	185	0	0	1,252	0	138	-89	40	
26	3349.65	69,847	-292	1,157	26	189	0	1	1,493	0	152	-18	34	
27	3349.54	69,744	-103	1,335	36	171	0	0	1,446	0	197	-2	40	
28	3349.27	69,491	-253	1,654	36	157	1	0	1,682	0	199	-218	40	
29	3349.01	69,248	-243	1,507	16	155	0	0	1,750	0	142	-29	44	
30	3348.96	69,201	-47	1,422	0	152	1	0	1,575	0	83	38	46	
31	3350.07	70,242	1,041	2,610	0	145	0	0	1,577	0	82	-55	46	
Total			2,462	44,934	243	9,177	35	4	42,833	0	7,754	-1,266	1,348	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

May 1998

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Apr 30	1586.03	122,355				
1	1586.22	122,785	430		11	
2	1586.38	123,147	362		10	
3	1586.57	123,578	431		10	
4	1586.77	124,033	455		10	
5	1587.02	124,601	568		10	
6	1587.37	125,400	799		11	
7	1587.62	125,972	572		10	
8	1587.62	125,972	0		12	
9	1587.62	125,972	0		12	
10	1587.62	125,972	0		21	
11	1587.61	125,949	-23		300	
12	1587.53	125,766	-183		507	
13	1587.57	125,857	91		507	
14	1587.57	125,857	0		508	
15	1587.57	125,857	0		508	
16	1587.55	125,811	-46		466	
17	1587.53	125,766	-45		605	
18	1587.49	125,674	-92		605	
19	1587.45	125,583	-91		605	
20	1587.37	125,400	-183		605	
21	1587.32	125,286	-114		606	
22	1587.27	125,172	-114		605	
23	1587.23	125,081	-91		606	
24	1587.20	125,012	-69		614	
25	1587.20	125,012	0		10	
26	1587.20	125,012	0		10	
27	1587.19	124,989	-23		11	
28	1587.19	124,989	0		10	
29	1587.17	124,944	-45		11	
30	1587.17	124,944	0		11	
31	1587.15	124,898	-46		10	
Total			2,543	10,683	7,837	-303

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries									
	Beginning and Ending					Entitlement	Rec.	Transfer	Purchase Pool B	Local					
No.	Structure	Mile													
17E	40	Edmonston Pumping Plant	293.45		52,814										
	41		298.65	Kern County Water Agency Tej.-Cas	Stub										
17F		Check No. 41	303.41												
18A	42	Check No. 42	304.99												
19	43	Alamo Powerplant	305.73	(Does not include 22 AF flow down Cottonwood Chute)	52,630	84									
			308.05	Antelope Valley-East Kern WA	84										
		Check No. 43	309.70												
	44		311.84	LADWP Connection	0										
			313.50	AVEK 245th Street West	0										
		Check No. 44	314.81												
	45		314.93	AVEK 235th Street West	10						10				
			315.57	AVEK 225th Street West	0										
		Check No. 45	319.74												
	46		323.19	Antelope Valley-East Kern WA Fairmont	2,014						1,886		128		
Check No. 46		323.84													
				Reach 19 Total:	2,108	1,980	0	128	0	0					
20A	47	Check No. 47	326.77			21									
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	21										
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved										
		Check No. 48	330.82												
	49	Check No. 49	335.93												
50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	64	64	2,566									
		341.51	Antelope Valley-East Kern WA	2,566											
20B	51	Check No. 51	342.07			15									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use										
		Check No. 52	343.74												
	53		346.98	PWD Palmdale	15										
		348.14	Antelope Valley-East Kern WA Acton Treatment Plant	0											
21		348.17			53										
	54	Check No. 54	350.25												
	55	Check No. 55	352.70												
	56	Check No. 56	354.76												
		354.97	Littlerock Creek I.D.	53											
22A	58		357.72	Antelope Valley-East Kern WA 96th Street East	47	47									
22B			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	358										

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

May 1998

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending					Entitle-ment	Recreation	Transfer	Purchase Pool B	Local	
No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		44,722						
	59	Check No. 59	366.09								
	60	Check No. 60	373.94								
	61	Check No. 61	379.00								
	62	Check No. 62	384.26								
	63	Check No. 63	389.50								
	64	Check No. 64	395.10								
	65	Check No. 65	400.32								
	66		401.10	Mojave Water Agency Morongo 24" and 42"	287	287					
				Mojave Water Agency Hesperia	0						
23		Mojave Siphon	405.48	Las Flores Ranch	1,348					1,348	
				Mojave Siphon Powerplant	405.65						(Does not include 243 AF bypassed at the flume)
24	67	Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	35					35	
				Calif. State Park Silverwood Agency (Rec.)	4						
25		San Bernardino Tunnel	411.46		42,833			4			
											San Gorgonio Pass Water Agency
26A	68	Devil Canyon Afterbay Control Structures	412.73	Devil Canyon Powerplant	412.73	42,833	5,683			4,000	
						MWD-SC Rialto					0
						Desert Water Agency (MWD Wheeling Exchange)					9,683
						San Gabriel Valley Water District					105
						Coachella Valley WD (MWD Wheeling Exchange)					12,891
						San Bernardino Valley Metropolitan Water District					64
		MWD (SBVMWD Exchange)	0								
28G	69	Santa Ana Valley Pipeline	425.46				323				
28H				MWD-SC Box Springs	323						
				MWD-SC Perris Bypass Pipeline	9,090						
				MWD-SC 18"	325						
28J		Lake Perris	443.44	MWD-SC 54"	2,437	2,437					
				MWD-SC 78"	5,060	5,060					
				Calif. State Park Lake Perris Recreation	15	15					
				MWD Total:	53,896	39,670	0	0	15,000	-774	

Table 32. Water Quality At Selected SWP Locations

May 1998

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l	32	158	63	54	62	64	50	52	69
Arsenic	mg/l	<0.001	0.002	0.003	0.002	0.002	0.002	0.003	0.003	0.002
Boron	mg/l	<0.1	0.4	0.3	0.2	0.2	0.2	<0.1	<0.1	0.1
Bromide	mg/l	0.08	0.07	0.13	0.10	0.12	0.14	NR	<0.01	0.06
Calcium	mg/l	7	25	18	18	18	20	12	13	18
Carbon - Total Organic	mg/l	NR	4.43	3.91	3.58	3.27	3.42	NR	3.13	3.56
Chloride	mg/l	1	28	46	35	41	47	4	4	24
Chromium	mg/l	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/l	<0.001	0.002	0.003	0.002	0.002	0.003	0.003	0.002	0.002
Fluoride	mg/l	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.1
Hardness	mg/l	29	160	82	79	84	93	41	43	73
Iron	mg/l	0.008	<0.005	<0.005	0.008	0.007	<0.005	0.012	0.016	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	2.9	23.7	9.4	8.3	9.4	10.5	2.6	2.7	7
Manganese	mg/l	<0.005	0.019	0.034	0.012	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.25	0.24	NR	NR	NR	NR	NR	NR
Phosphorus-Ortho	mg/l	<0.01	0.08	0.11	NR	NR	NR	NR	0.03	0.02
Phosphorus-Total	mg/l	<0.01	0.17	0.15	NR	NR	NR	NR	0.06	0.04
Selenium	mg/l	<0.001	<0.002	<0.003	<0.004	<0.005	<0.006	<0.007	<0.008	<0.009
Sodium	mg/l	2.83	39.4	41.8	30.2	34.4	40.4	10.5	10.4	24
Specific Conductance	µS/cm	73	487	380	319	354	406	135	137	272
Sulfate	mg/l	<1	49	43	42	41	54	5	6	25
Total Dissolved Solids	mg/l	49	283	212	175	193	214	78	89	157
Trihalomethane Formation Potential	µg/l	NR	605	464	429	377	434	484	416	460
Turbidity	NTU	5	36	6	28	12	18	37	11	3
Zinc	mg/l	<0.005	<0.006	<0.007	<0.008	<0.009	<0.010	<0.011	<0.012	0

mg/l milligrams per liter
 µg/l micrograms per liter
 µS/cm microSiemens per centimeter
 NR - Not Reported
 NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

May 1998

Date	Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in milliSiemens/cm									Cl in mg/l
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	Contra Costa Canal Intake
			Mean Daily	Monthly Average	md					md	md				14dm
	Hi	Half			md	md	md	14dm	md	14dm	md	md	md	md	
1	3.71	1.95	64,647	64,647	38,825	0.20	N.R.	0.16	0.17	0.17	0.18	0.24	1.49	0.26	43
2	3.21	1.79	63,418	64,033	39,683	0.20	N.R.	0.16	0.17	0.17	0.18	0.22	1.31	0.24	40
3	2.94	1.56	67,028	65,031	41,036	0.20	N.R.	0.15	0.17	0.17	0.18	0.23	1.23	0.25	42
4	2.84	1.41	68,902	65,999	42,137	0.20	N.R.	0.15	0.17	0.16	0.18	0.23	1.19	0.24	41
5	2.93	1.52	69,527	66,704	42,853	0.20	N.R.	0.15	0.16	0.16	0.18	0.23	1.14	0.25	41
6	3.09	1.43	71,205	67,455	43,344	0.18	N.R.	0.14	0.16	0.16	0.17	0.24	1.13	0.28	44
7	3.11	1.41	71,748	68,068	43,807	0.18	N.R.	0.15	0.16	0.16	0.17	0.25	1.12	0.31	46
8	3.24	1.36	70,090	68,321	42,537	0.19	N.R.	0.14	0.16	0.15	0.17	0.25	1.09	0.29	42
9	3.17	1.36	69,008	68,397	40,679	0.18	N.R.	0.15	0.16	0.15	0.17	N.R.	1.05	0.30	41
10	3.19	1.29	66,728	68,230	38,973	0.17	N.R.	0.14	0.15	0.15	0.16	N.R.	1.00	0.31	40
11	3.24	1.40	62,780	67,735	38,145	0.17	N.R.	0.14	0.15	0.15	0.16	N.R.	1.07	0.30	39
12	3.49	1.67	60,981	67,172	38,189	0.17	N.R.	N.R.	0.15	0.15	0.16	N.R.	1.07	0.30	37
13	3.63	1.67	64,257	66,948	40,427	0.19	N.R.	N.R.	0.15	0.16	0.16	N.R.	1.07	0.28	39
14	3.45	1.54	68,006	67,023	43,117	0.18	N.R.	N.R.	0.15	0.16	0.16	N.R.	1.04	0.26	40
15	3.24	1.48	70,805	67,275	43,881	0.17	N.R.	N.R.	N.C.	N.R.	0.16	N.R.	N.R.	N.R.	41
16	3.31	1.68	70,617	67,484	43,585	0.17	N.R.	0.14	N.C.	0.16	0.16	N.R.	1.09	0.27	41
17	2.84	1.37	69,535	67,605	43,379	0.17	N.R.	0.14	N.C.	0.16	0.16	N.R.	1.15	0.27	43
18	2.67	1.34	67,008	67,572	43,717	0.18	N.R.	0.14	N.C.	0.16	0.16	N.R.	1.13	0.29	44
19	2.67	1.33	67,288	67,557	44,117	0.17	N.R.	0.16	N.C.	N.R.	0.16	N.R.	1.11	0.27	44
20	2.99	1.25	68,196	67,589	43,173	0.17	N.R.	N.R.	N.C.	N.R.	0.16	N.R.	N.R.	N.R.	44
21	3.04	1.11	67,344	67,577	40,655	0.17	N.R.	0.13	N.C.	0.15	0.15	N.R.	1.07	0.24	45
22	3.21	1.19	62,894	67,364	38,830	0.16	N.R.	0.13	N.C.	0.15	0.15	N.R.	1.08	0.23	36
23	3.57	1.38	60,698	67,074	36,911	0.16	N.R.	0.13	N.C.	0.15	0.15	N.R.	1.15	0.23	40
24	3.80	1.47	57,749	66,686	35,794	0.16	N.R.	0.13	N.C.	0.16	0.16	N.R.	1.15	0.22	41
25	4.02	1.68	55,990	66,258	35,650	0.16	N.R.	0.13	N.C.	0.16	0.16	N.R.	1.16	0.22	38
26	4.18	1.76	56,302	65,875	36,420	0.16	N.R.	0.14	N.C.	0.15	0.16	N.R.	1.12	0.21	37
27	4.02	1.69	57,675	65,571	38,730	0.16	N.R.	0.13	0.14	0.15	0.16	N.R.	1.08	0.21	35
28	3.93	1.87	59,996	65,372	42,595	0.16	N.R.	0.13	0.14	0.15	0.15	N.R.	1.07	0.23	33
29	3.81	1.84	70,538	65,550	48,747	0.16	N.R.	0.12	0.13	0.15	0.15	N.R.	0.91	0.23	30
30	3.38	1.70	77,723	65,956	52,426	0.16	N.R.	0.13	0.13	0.14	0.15	N.R.	0.79	0.22	33
31	3.01	1.67	81,417	66,455	60,136	0.15	N.R.	0.13	0.13	0.14	0.15	N.R.	0.83	0.23	34

Clifton Court Cl(mg/l)=200X EC - 25

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns md = Daily Mean

s = Balanced water conditions with storage withdrawals. md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected in the SWP

May 1998

Sampling Location	Sample Date 1/	Chemical Detected 2/	Concentration µg/l 3/
North Bay Aqueduct At Barker Slough Pumping Plant	March-18-1998	None Detected	
California Aqueduct At Banks Pumping Plant	March-18-1998	None Detected	
Delta Mendota Canal At McCabe Road	March-18-1998	None Detected	
California Aqueduct Near Kettleman City (Check 21)	March-18-1998	None Detected	
California Aqueduct At Tehachapi Afterbay (Check 41)	March-18-1998	None Detected	
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	March-18-1998	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ These detection results were double checked with the lab, due to the unlikeliness of nothing being detected, the results are still being looked into.

3/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

May 1998

(in kWh)

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant
	Generation	Load	Load	Load	Total Load	SWP Load	Load	Load
1	8,598,528	0	14,077	22,526	20,736	20,736	43,920	180
2	3,837,312	0	13,034	22,820	177,600	177,600	85,315	175
3	356,832	0	11,844	20,055	14,784	14,784	104,645	398
4	8,768,736	0	12,523	21,266	15,744	15,744	119,905	177
5	10,308,960	0	13,643	20,776	15,936	15,936	150,710	179
6	10,190,880	0	12,992	23,247	15,936	15,936	176,680	187
7	14,507,136	0	11,263	18,711	279,936	279,936	157,205	186
8	8,573,760	0	12,796	22,715	17,664	17,664	165,195	425
9	1,273,248	0	13,825	21,805	16,704	16,704	169,130	185
10	1,128,384	0	15,512	21,735	17,088	17,088	155,345	181
11	9,675,648	0	14,042	21,938	259,008	259,008	160,860	182
12	17,214,624	0	9,653	18,424	17,280	17,280	157,125	193
13	18,013,824	0	12,117	21,161	17,472	17,472	139,350	200
14	15,569,280	0	13,517	21,063	17,856	17,856	125,260	192
15	15,598,944	0	11,907	20,531	168,000	168,000	138,320	198
16	10,092,672	576	12,390	21,553	317,184	317,184	134,090	188
17	9,560,736	288	13,244	20,958	318,336	318,336	129,925	186
18	14,367,168	2,016	16,429	23,744	328,704	328,704	153,075	186
19	18,423,936	0	15,995	23,100	367,104	367,104	187,970	182
20	18,885,312	0	14,182	18,900	510,912	510,912	210,880	182
21	19,084,608	0	13,538	17,759	586,368	586,368	244,440	208
22	18,614,592	0	12,579	17,612	956,352	956,352	296,165	197
23	13,924,224	0	14,308	18,921	994,752	994,752	276,945	170
24	12,281,184	0	14,952	19,369	1,230,336	1,230,336	266,290	187
25	13,987,872	0	14,945	18,844	1,114,368	1,114,368	265,325	178
26	15,850,368	0	14,007	17,815	1,137,792	1,137,792	305,935	187
27	16,584,480	0	13,426	17,990	1,126,464	1,126,464	308,995	187
28	17,406,144	0	9,800	13,153	1,030,656	1,030,656	272,800	184
29	18,451,008	0	8,687	14,868	445,632	445,632	245,685	185
30	12,005,856	0	10,073	15,036	393,216	393,216	257,205	180
31	9,879,264	0	11,515	15,862	547,008	547,008	219,225	173
Total	383,015,520	2,880	402,815	614,257	12,476,928	12,476,928	5,823,915	6,198

Table 36. San Luis Field Division Energy Data

(in kWh)

May 1998

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	948,816	243,816	3,084,768	-20,232	11,520	11,520
2	991,152	259,152	1,672,416	-7,584	10,080	10,080
3	879,264	147,264	4,320	4,320	25,920	25,920
4	864,432	79,432	1,693,152	38,152	12,384	12,384
5	480,528	46,528	1,490,688	-13,312	13,248	13,248
6	63,648	15,648	0	0	833,760	629,760
7	104,832	20,832	0	0	937,152	19,152
8	134,640	26,640	0	0	838,368	22,368
9	136,512	28,512	0	0	807,264	29,264
10	212,112	44,112	0	0	3,243,744	3,744
11	154,368	46,368	0	0	1,243,008	-7,992
12	279,360	54,360	0	0	1,730,304	-24,696
13	208,368	100,368	0	0	1,439,424	424
14	208,944	100,944	0	0	473,184	14,184
15	282,096	174,096	0	0	472,032	13,032
16	265,536	157,536	0	0	470,304	11,304
17	341,568	233,568	0	0	3,485,088	-48,912
18	291,744	165,744	0	0	470,880	11,880
19	534,672	408,672	0	0	474,336	15,336
20	452,160	290,160	0	0	1,830,528	-28,472
21	452,160	281,160	0	0	2,308,032	-40,968
22	740,880	560,880	0	0	2,159,136	-49,864
23	623,376	434,376	0	0	1,402,272	3,272
24	699,840	351,840	0	0	1,218,816	-5,184
25	664,848	439,848	0	0	1,221,120	21,120
26	664,128	439,128	0	0	605,664	6,664
27	651,456	426,456	0	0	1,019,232	-5,768
28	584,928	170,928	0	0	1,112,544	-7,456
29	484,704	70,704	0	0	635,040	145,040
30	582,624	168,624	0	0	702,432	702,432
31	709,056	295,056	0	0	427,392	427,392
Total	14,692,752	6,282,752	7,945,344	1,344	31,634,208	1,930,208

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

May 1998

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	41,954	118,616	58,860	60,660	59,508	767,880	768,744	1,656,288	5,754,960
2	29,978	92,032	46,008	47,430	45,882	787,680	714,816	1,529,280	5,578,560
3	29,246	79,232	59,598	61,002	58,824	787,320	777,168	1,711,296	6,121,440
4	19,426	52,888	14,004	13,842	14,400	798,552	838,008	1,886,400	6,477,840
5	18,992	50,080	60,102	56,808	59,976	793,224	794,160	1,840,608	6,602,400
6	6,672	16,792	23,022	21,924	22,662	845,640	892,224	2,012,256	6,953,760
7	7,662	18,688	33,282	34,830	34,614	677,088	744,840	1,758,816	6,286,320
8	7,260	17,512	33,732	33,570	32,832	362,592	342,648	691,776	2,201,040
9	8,056	20,280	23,022	23,130	22,788	337,104	372,888	822,240	2,967,840
10	6,248	14,904	36,630	37,836	37,098	330,624	341,136	728,640	2,361,600
11	21,354	56,648	40,518	41,616	41,634	339,552	383,688	839,808	2,964,240
12	22,528	63,448	39,222	40,086	39,330	343,008	390,600	842,976	2,964,960
13	14,230	37,840	33,534	34,488	33,876	385,200	402,768	898,848	3,349,440
14	17,834	45,760	36,054	37,260	36,576	346,032	382,248	870,336	2,906,640
15	24,200	65,872	16,506	16,722	16,398	350,064	368,136	777,024	2,604,960
16	27,392	76,272	1,692	1,764	1,404	356,760	376,776	812,160	2,784,240
17	24,146	65,888	1,638	1,746	1,404	331,704	390,456	866,592	3,036,240
18	25,222	66,712	1,656	1,782	1,404	369,864	389,520	828,864	2,905,920
19	26,720	70,232	1,692	1,818	1,458	369,432	389,520	830,650	2,718,000
20	24,324	62,496	1,656	1,782	1,422	368,712	387,000	810,144	2,900,160
21	24,034	61,488	8,532	8,784	8,172	387,648	419,328	877,824	2,895,120
22	21,060	54,416	26,892	27,000	27,072	475,632	450,648	948,960	3,143,520
23	18,748	50,608	26,730	25,848	27,342	475,488	397,080	804,672	2,535,840
24	19,314	52,256	49,608	51,084	48,978	337,032	383,472	834,912	2,946,960
25	22,046	56,880	20,628	21,600	21,906	438,120	380,808	768,096	2,520,720
26	28,826	78,352	28,494	29,322	28,782	449,856	469,152	954,144	3,614,400
27	28,594	84,504	35,118	35,964	35,100	513,288	514,296	1,094,688	3,508,560
28	25,974	70,936	49,068	49,914	50,148	550,656	527,904	1,144,800	4,039,920
29	22,418	59,872	38,322	36,144	39,024	576,360	574,776	1,245,888	4,216,320
30	22,004	58,640	23,958	25,326	24,480	628,488	596,160	1,299,456	4,540,320
31	24,840	65,752	53,964	55,152	53,802	746,856	752,544	1,643,616	5,868,000
Total	661,302	1,785,896	923,742	936,234	928,296	15,627,456	15,913,512	34,632,058	120,270,240

Table 38. Southern Field Division Energy Data

(in kWh)

May 1998

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Mojave Siphon Powerplant Generation	Devil Canyon Powerplant Generation
1	8,176	0	720,000	311,192	1,303,380	168,819	2,492,352
2	7,616	0	720,000	302,680	1,433,796	174,006	2,335,488
3	7,672	0	720,000	330,680	1,437,864	170,625	2,322,912
4	7,784	0	600,000	336,616	1,583,772	191,751	2,488,320
5	8,176	0	600,000	353,024	1,961,976	230,034	2,353,248
6	9,072	0	600,000	360,808	1,775,532	216,594	2,104,416
7	8,288	0	600,000	295,820	1,724,712	193,788	1,512,768
8	7,728	0	600,000	110,404	600,624	79,065	1,106,400
9	8,512	0	600,000	150,556	671,916	83,034	1,172,640
10	8,680	0	600,000	119,588	706,584	75,201	1,194,336
11	8,680	0	600,000	156,464	675,720	57,162	1,137,792
12	9,184	0	600,000	152,040	865,956	115,038	858,240
13	9,072	0	600,000	171,472	758,988	70,329	1,225,536
14	9,352	0	600,000	145,684	758,376	68,040	1,212,576
15	8,624	0	600,000	134,372	615,504	79,275	1,335,648
16	8,736	0	600,000	144,144	814,668	86,100	1,429,824
17	9,184	0	600,000	151,816	750,192	94,479	1,593,408
18	8,456	0	600,000	153,804	796,368	101,913	1,680,000
19	8,512	0	600,000	139,356	698,304	89,250	1,495,392
20	8,568	0	600,000	151,536	647,568	79,989	1,614,528
21	8,512	0	600,000	148,540	793,404	85,008	1,790,208
22	8,904	0	600,000	161,924	736,488	55,944	1,710,720
23	7,952	0	600,000	133,980	583,392	60,144	1,628,160
24	7,224	0	600,000	145,656	654,516	91,182	1,665,504
25	7,448	0	840,000	124,880	770,220	85,932	1,552,704
26	8,008	0	840,000	194,320	830,976	93,324	1,837,728
27	8,960	0	840,000	188,356	845,124	103,635	1,782,336
28	7,112	0	840,000	208,264	1,003,620	118,881	2,075,136
29	6,944	0	840,000	228,536	1,104,144	116,886	2,135,424
30	7,112	0	840,000	236,852	1,168,092	113,862	1,937,184
31	6,720	0	840,000	315,252	1,753,548	195,888	1,916,256
Total	254,968	0	20,640,000	6,258,616	30,825,324	3,545,178	52,697,184